

# Wei Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

2,141  
citations

279487

23  
h-index

301761

39  
g-index

40  
all docs

40  
docs citations

40  
times ranked

3306  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in Regulatory Strategies of Differentiating Stem Cells towards Keratocytes. <i>Stem Cells International</i> , 2022, 2022, 1-11.	1.2	1
2	Multifunctional polyphenol-based silk hydrogel alleviates oxidative stress and enhances endogenous regeneration of osteochondral defects. <i>Materials Today Bio</i> , 2022, 14, 100251.	2.6	20
3	Effects of Zinc, Magnesium, and Iron Ions on Bone Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 2321-2335.	2.6	47
4	Nanosilicate-Reinforced Silk Fibroin Hydrogel for Endogenous Regeneration of Both Cartilage and Subchondral Bone. <i>Advanced Healthcare Materials</i> , 2022, 11, .	3.9	17
5	Systematic Review of Silk Scaffolds in Musculoskeletal Tissue Engineering Applications in the Recent Decade. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 817-840.	2.6	23
6	Copper-based biomaterials for bone and cartilage tissue engineering. <i>Journal of Orthopaedic Translation</i> , 2021, 29, 60-71.	1.9	57
7	Enzymatically crosslinked silk-nanosilicate reinforced hydrogel with dual-lineage bioactivity for osteochondral tissue engineering. <i>Materials Science and Engineering C</i> , 2021, 127, 112215.	3.8	32
8	Carbon-Based Nanomaterials for Bone and Cartilage Regeneration: A Review. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4718-4735.	2.6	35
9	The application of human periodontal ligament stem cells and biomimetic silk scaffold for in situ tendon regeneration. <i>Stem Cell Research and Therapy</i> , 2021, 12, 596.	2.4	18
10	The Application of Mechanical Stimulations in Tendon Tissue Engineering. <i>Stem Cells International</i> , 2020, 2020, 1-14.	1.2	25
11	Sustained Release of TPC from Silk Fibroin Hydrogels Preserves Keratocyte Phenotype and Promotes Corneal Regeneration by Inhibiting Interleukin-1 Signaling. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000591.	3.9	26
12	Regulation of Keratocyte Phenotype and Cell Behavior by Substrate Stiffness. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 5162-5171.	2.6	22
13	Cell-Free Biomimetic Scaffold with Cartilage Extracellular Matrix-Like Architectures for In Situ Inductive Regeneration of Osteochondral Defects. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 6917-6925.	2.6	18
14	An all-silk-derived functional nanosphere matrix for sequential biomolecule delivery and in situ osteochondral regeneration. <i>Bioactive Materials</i> , 2020, 5, 832-843.	8.6	48
15	Tannic acid-mediated dual peptide-functionalized scaffolds to direct stem cell behavior and osteochondral regeneration. <i>Chemical Engineering Journal</i> , 2020, 396, 125232.	6.6	43
16	Emerging Trend in the Pharmacotherapy of Osteoarthritis. <i>Frontiers in Endocrinology</i> , 2019, 10, 431.	1.5	68
17	Mechanical stress potentiates the differentiation of periodontal ligament stem cells into keratocytes. <i>British Journal of Ophthalmology</i> , 2018, 102, 562-569.	2.1	18
18	Promotion of Hernia Repair with High-Strength, Flexible, and Bioresorbable Silk Fibroin Mesh in a Large Abdominal Hernia Model. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 2067-2080.	2.6	24

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19	Ascorbic Acid Promotes the Stemness of Corneal Epithelial Stem/Progenitor Cells and Accelerates Epithelial Wound Healing in the Cornea. <i>Stem Cells Translational Medicine</i> , 2017, 6, 1356-1365.	1.6	53
20	Silk Fibroin Biomaterial Shows Safe and Effective Wound Healing in Animal Models and a Randomized Controlled Clinical Trial. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700121.	3.9	173
21	Surface Topography and Mechanical Strain Promote Keratocyte Phenotype and Extracellular Matrix Formation in a Biomimetic 3D Corneal Model. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601238.	3.9	38
22	<i>Wnt3</i> Promotes Early Stage Teno-Lineage Differentiation of Tendon Stem/Progenitor Cells in Tendon. <i>Stem Cells Translational Medicine</i> , 2017, 6, 2009-2019.	1.6	16
23	Silk fibroin-chondroitin sulfate scaffold with immuno-inhibition property for articular cartilage repair. <i>Acta Biomaterialia</i> , 2017, 63, 64-75.	4.1	124
24	Substance P and patterned silk biomaterial stimulate periodontal ligament stem cells to form corneal stroma in a bioengineered three-dimensional model. <i>Stem Cell Research and Therapy</i> , 2017, 8, 260.	2.4	14
25	Characterization and comparison of post-natal rat Achilles tendon-derived stem cells at different development stages. <i>Scientific Reports</i> , 2016, 6, 22946.	1.6	30
26	Human Cartilage-Derived Progenitor Cells From Committed Chondrocytes for Efficient Cartilage Repair and Regeneration. <i>Stem Cells Translational Medicine</i> , 2016, 5, 733-744.	1.6	145
27	Current research on pharmacologic and regenerative therapies for osteoarthritis. <i>Bone Research</i> , 2016, 4, 15040.	5.4	355
28	Physical regulation of stem cells differentiation into teno-lineage: current strategies and future direction. <i>Cell and Tissue Research</i> , 2015, 360, 195-207.	1.5	32
29	Intra-Articular Injection of Human Meniscus Stem/Progenitor Cells Promotes Meniscus Regeneration and Ameliorates Osteoarthritis Through Stromal Cell-Derived Factor-1/CXCR4-Mediated Homing. <i>Stem Cells Translational Medicine</i> , 2014, 3, 387-394.	1.6	86
30	Long-term effects of knitted silk collagen sponge scaffold on anterior cruciate ligament reconstruction and osteoarthritis prevention. <i>Biomaterials</i> , 2014, 35, 8154-8163.	5.7	84
31	Clinical translation of autologous cell-based tissue engineering techniques as Class III therapeutics in China: Taking cartilage tissue engineering as an example. <i>Journal of Orthopaedic Translation</i> , 2014, 2, 56-65.	1.9	5
32	The use of type 1 collagen scaffold containing stromal cell-derived factor-1 to create a matrix environment conducive to partial-thickness cartilage defects repair. <i>Biomaterials</i> , 2013, 34, 713-723.	5.7	129
33	Incorporation of bioactive polyvinylpyrrolidone iodine within bilayered collagen scaffolds enhances the differentiation and subchondral osteogenesis of mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2013, 9, 8089-8098.	4.1	28
34	The promotion of osteochondral repair by combined intra-articular injection of parathyroid hormone-related protein and implantation of a bi-layer collagen-silk scaffold. <i>Biomaterials</i> , 2013, 34, 6046-6057.	5.7	78
35	Bi-layer collagen/microporous electrospun nanofiber scaffold improves the osteochondral regeneration. <i>Acta Biomaterialia</i> , 2013, 9, 7236-7247.	4.1	110
36	Neonatal Desensitization Supports Long-Term Survival and Functional Integration of Human Embryonic Stem Cell-Derived Mesenchymal Stem Cells in Rat Joint Cartilage Without Immunosuppression. <i>Stem Cells and Development</i> , 2013, 22, 90-101.	1.1	41

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37	Inhibitory function of parathyroid hormone-related protein on chondrocyte hypertrophy: the implication for articular cartilage repair. <i>Arthritis Research and Therapy</i> , 2012, 14, 221.	1.6	52